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## PWM DIGITAL AMPLIFIER WITH HIGH-ORDER LOOP FILTER

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5 ABSTRACT

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- An improved PWM amplifier is disclosed that uses multiple integrators in the loop filter to
- 8 provide high loop gain across the frequency band-of-interest. The frequency characteristics of
- 9 the loop filter are optimized to distribute large loop gains across the entire band to provide large
- suppression of noise and distortions generated in the modulation and output stages.